Rec April 14
Ans " 17

B. J. Hom

Centreville Del. Apr. 11th 1866

Mr. G. Engelmann

Dear Sir. at the request of Mr. E. Durand of Phila who informs me that you are now engaged upon a monograph of the genus. Juncus I send you specimens of the Juncus Marginatus var. Biflorus. these were collected by me near Wilmington Del. (excepting one specimen) and may perhaps be of some value to you as showing the Geographical range of this Variety. I send them to day by Express. I have added a few others marked - 1 - 2 & 3 that seems different in appearance but are nothing more perhaps than forms of J. Paradoxus. if more distinct would you be kind enough to inform me

Very Respectfully

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Rec^d Ap^l 28
Ans — 30

Centreville. Del. Ap 25th 1866

Dr. G. Engelmann

Dear Sir — I received a letter from St. Louis dated Ap 17th without signature. after reading the contents I concluded that it was from Dr. Engelmann. I am much obliged for the specimen you send me marked J. Fraterius Ruth. it is very common here & is the Acuminatus of Gray's Manual I often see it with the leafy excrescence in the panicle in place of flowers. as to the question whether I have ever seen these excrescences in the Paradoxus I cannot answer with certainty. I don't recollect of ever seeing it in that specie. you ask what other Juncei grow here. I have the Effusus. Setaceus. Scirpoides. Paradoxus. Debilis. Acuminatus. & var Biflorus. Tenuis & Bufonius. all that have yet been found in our Co (New Castle)

I avail myself of the opportunity you

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offer me to have my specimens determined I will forward them to day. in this lot I have put in a few Plantaris for you that might prove interesting. No 1 I found in 1864 & if not a distinct specie. is certainly a well marked var. of P. Mayor a comparison of the seeds. Pods &c of the specimens will show the distinction in regard to collecting these varieties of Juncei. I will try to get them for you & would exchange for other specimens I am pleased with the opportunity of increasing my own collections in this way & will endeavor to make up a lot that will be satisfactory when among them again I will look for more forms & variations to send you.

Very Respectfully

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Rec'd May 11th
reply – end of
page 49

443
~~83~~ 7/8
5 more wanted
pkg 55 – 64

Centreville May 7th 1866

Dr G. Engelmann

Dear Sir. yours of Ap 30th received by which I find that I have made quite a mistake in regard to one of my specimens I had taken it for the plant marked in the catalogue of this Cty as I Letaeus.

I will accept the offer you make & try to collect the 800. specimens for you as desired, I think I can obtain a hundred of the bar Biflorus; finding it last season for the first time I have at present but a few localities to collect from. I understand you as wanting these collected when in flower with a portion of the root & to add a fruiting panicle to each specimen

you speak of finding among my specimens of terminatus a few with larger flowers than usual that you desire a hundred of, please mark these

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that I may know them when they are returned, this being the first undertaking to collect for an exchange I would like to know the usual mode of preparing them & whether I should label each of the specimens

I desire you to retain whatever you may want of my specimens & would be glad to have some of them replaced by others.

Yours Very Respectfully

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Rec'd July 10th
Ans July 13

Centreville July 5th 1866

Dr. G. Engelmann

Dear Sir

I send you a few specimens which I collected this season in New Castle County.

The Isoetes was collected June 2nd near Wilmington on a hillside among rocks. (an unusual place for them I think) where it was at that time a little wet or springy. on visiting the locality again June 30th the place was entirely dry and I could find no vestige of the few plants that I had left growing there. I first thought they might be stray plants of the Engelmannii but they seem to develop earlier than the other Isoetes that grow in the County. the nature of the locality may influence in this respect. whether it be anything new or not I was not able to determine & therefore

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send them to you for a name.

I was yesterday making some collections of I. Marginatus Var-Biflorus when I came across another Juncus which I take to be the Nodosus. I enclose a specimen of it It is also of the I Bulbosus Var-Gerardi which I gathered in the lower part of the County a few weeks ago & wish to know if they are named correctly. I find the Var-Biflorus to be more common than I had at first supposed I can get the desired number of them for you without difficulty (excepting distance) & expect soon to have them ready to send you.

What of my Plantago is it an imported one or a new specie. if the latter it ought to have a name. it resembles P. Major so much in general appearance the name should be one that would denote same

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prominent point of distinction between them an appropriate one would be Obtusa from the pods. seeds &c being more obtuse. or minor from the spike. pods. seeds &c being smaller or perhaps there may be other names that would express the distinction quite as well. these Ideas suggested themselves as I write & I put them down just as they occur.

Yours Very Respectfully

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Rec'd July 26th
Ans Aug 13

Centreville Del. July 20th 1866

Dr. F. Engelmann

Dear Sir

I received your letter of July 13th in which you express a desire for some of the spike flowered form of I Pallescens var Fraternus for your Herbarium Normale, I have only a few specimens of it but will send them to you when I forward the collections and if I should meet with any more will collect them for you.

In your last letter I have received through my friend Wm. M. Canby my package of fungi and was gratified to find the specimens named and several new ones added, many thanks for your kindness. Mr Canby has also given me a copy of the Transactions containing the first part of your revision in lieu of the one that failed to reach me by mail. I have now collected

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the desired number of C. Marginatus has bifloras for you & also have most of the others.

I will seriously send specimens of what I find worthy of notice, enclosed is one of Junc. Dichotomus which I found lately & collected a good lot of near Wilmington Del. I think this is as far north as it has yet been found. There is another southern species that might be found here. the Elliottii and if it was not asking too much I would like to beg of you a single head of it if you had a spare one. which would enable me to distinguish it from the near Factorum as (judging from drawing) it seems to resemble in appearance.

as regards Scirpus the season has been so dry than usual at that time of the year. it grows on a sandy road on a hillside where the ground is entirely dry except in the spring of the year when the springs are then most flush with water

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~~At this~~ then there was a little water oozing out on the side of the knoll among the rocks but so little that scarcely any runs away, merely a moist spot, as the season advances & gets warmer it dries up & by the last of June it is a dry locality grown over by grass some stunted specimens of Carex Willdenovii &c.

I found 16 specimens growing in a space of 18 inches square & left a few of them growing there. the locality and the earlier maturity seems good grounds for suspecting a new specie, next year I will watch it more closely and try to get better specimens

Very Truly Yours

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Rec: Sept 25
Ans Oct 4

Centreville Md Sept 20th 1866.

Dr. F. Engelmann

Dear Sir — Your
favor of Aug 18th has been on hand for some
time. I delayed answering until
after my trip to Salisbury Md
which I made on Sept 12th purposely
to collect the spike headed form of
Juncus Canadensis for you. I was
somewhat disappointed in my expectation
on reaching the locality I found
cattle pasturing the field and my
Juncus all browsed off. I hunted
again for it the next day in other
places and succeeded in finding
some twenty specimens in a boggy
swamp but they are not as large
and fine as those I collected 3 years
ago in the open clearing there I will
send with my collections. I enclose a
specimen for name ~~but~~ which I take to be

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I Debilis. I find Juncus Dichotomus growing around Salisbury and also along the river shore in the lower part of this county as well as at Wilmington. It has also been collected at Lewistown Del thus showing that it is not they rare on the west side of the Del and ought to be found in N J which is on the opposite side.

I have mailed you 2 packages, one of Isoetes Riparia & the other of I. Engelmannii put up in damp moss which I collected Sept 19th & hope will reach you in good condition.

The I. Muricata you speak of in your letter I am not yet acquainted with.

I am obliged for these specimens of Juncus Elliottii.

Yours very Truly

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Rec Nov 15th
Ans same day

Centreville Nov 12th 1866

Dr. G. Engelmann

Dear Sir.

Yours of Oct 17th has been rec'd. I have forwarded the collections to you by express and with them send a few other plants which I thought would be interesting. The Desmodium is a rare one from different localities. one being in this county where I discovered it the present year. these are the best specimens I could obtain and I find scarcely any having fruit. The Coreopsis have ray florets which I believe has not been noticed in this plant before neither is it a dwarf as Gray's Manual describes. The Alnus is a fall flowering plant and to compare with it I have added a specimen of A. serrulata collected in the same locality

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and at the same time. The Scirpus is a new species I discovered 3 years ago while with Mr Canby on a Botanical tour down the Peninsula (for an account of this and the Alnus see Proc Acad Nat Science Phila Jan 1864. p. 15.)

I send 125 specimens of the genus Rhynchospora Bifloras in flower and the same number in fruit also a number of the spicate forms of Hemianthus and Lindadensis. I made a mistake with the Hemianthus collecting rays instead of pistils. which cannot now be helped although I send them I do not expect any return for them. Should the 100 of the Rhy-Bifloras be satisfactory they will be all that I expect any exchange for and if agreable to you would prefer having them in all species and varieties of genus Rhynchospora from those obtained one last spring. I am sorry to have disappointed you in the Hemianthus the

and will undertake to collect it and the proliferous form on the same terms next year if you desire it. the experience of this season will enable me then to prepare better specimens.

Is it not time to discard the Idea of these leafy excrescenses (so called) being produced by the puncture of an insect and would it not be more proper to designate them as bulblets. in the package you will find specimens of the terminatus which are proliferous the Bulblets producing a stem which have leaves and bear fruit and in one specimen (which is marked) a head upon one of these proliferous shoots producing a bulblet thus making it twice proliferous. it seems to me it is right to establish the fact that they are bulblets and not excrescenses. under favorable circumstances or during the warmest part of the season these

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Bulblets will send up a stem and bear fruit but generally they remain as leafy buds or bulblets. You will notice those collected in Aug as having stems while those of June and July are merely bunch of leaves. These specimens are very poor ones and I only put them in to explain these Items.

Your letter of Nov 5th rec'd in time to remind me of sending you an Isoetes which I gathered in a dried up ditch near Ogletown and would like to know if it is the Malida

Excuse my Tardiness in sending the Package

Yours very truly

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Rec'd Nov 30
Ans Nov 3 1867

Non-mach.

Centreville Nov 26th 1866

Dr. G. Engelmann

Dear Sir

Yours of Nov 15th has been Rec'd. It was unfortunate that so much seed was lost of the fruiting specimens they were in fine condition when sent mine of the capsules open or loose seed in the papers. I am sorry I did not turn the edges of the papers they were in which would have saved them.

The specimens sent of Juncus Bufonius were collected in open places on some rather sterile grounds along Shelhott creek near Wilmington possibly associated with Juncus Tenuis. Juncus Marginatus. Elyna Hospora Glomerata. & Cymosa. etc. in a pieces [illegible] of Juncus Marginatus

Lactuca was Wilmington was collected in the Dame locality on a moist springy piece of impoverished ground worn out by cultivation. The single spicate form labeled Centreville is from the banks of a small stream in a meadow on soil partly impoverished in this meadow were collected Juncus Canadensis var Tuberculatus (all of them) and those of the proliferous form of Acuminatus labeled Centreville May 15th the growing in the wet springs and along the banks of the stream Carex Debilis. Platanthera Fimbriata. & Onoclea Sensibilis were growing in this swamp the meadow was covered mostly with Green Grass with sterile knolls projecting into it from the surrounding hillsides. The remainder of the Acuminatus were gathered along streams & border of ponds in various places.

Juncus Dichotomus is from low grounds

on the borders of a swamp near Wilmington growing with Celeria Triglomerata. Innem Biflorus &c it also grows on the sandy shores of the Delaware in the lower part of the country. all the forms of Iuniens Canadensis var Longicaudatus are from a wet sandy swamp near Salisbury Md. common in this swamp were Alnus Serrulata Magnolia Glauca. Juriena Squarrosa. Utricularia Cornuta, etc.

I collected on wet sandy soil late in the season (oct 10th) a specimen of Iuncus Canadensis var Subcaudatus with one bud having a leafy bulblet and saved the specimen to send with the collection but it accidentally got broken off and I laid it aside this was the only one noticed in any of the var. of Canadensis. would it not be possible to find them more

frequently in this near in the Southern States than here, or rather I should say that better specimens of the proliferous forms ought to be obtained from that section as the climate would seem more favorable to their development judging this by Juniperus Pelocarpus which in its most southern limits (Florida) the tendency of the plant seems more productive of these bulblets than fruit

Yours very truly

F. Lamarche

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Rec. Nov 13
Ans Dec 9

Centreville Del. Nov 11th 1867

Dr. George Engelmann

Dear Sir – Your last letter has been Rec'd. many thanks for the enclosed specimens of Wolffia they are new to me and very interesting. if so circumstanced next year that I can attend to it I will look along some of our ponds and ditches for them. I enjoy looking over localities in search of new plants and hope I may be able to procure some for you next season these new specimens will spur up to more exertion in that direction having had severe sickness in our family in the early part of the summer together with an aggravation of a complaint that has troubled me for some time a Neuralgia of the Heart. I had to

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Lay Botanical matters aside for awhile
and consequently made no Collection
to send you this Season
I am sorry to again disappoint
and to lose my Suit of Juncii
I do not consider that I am now
entitled to an exchange and what
Specimens I have recd. can balance
those I have sent you. I can
now answer a former Enquiry about
the Excrescences of Juncus Canadensis
var Sub-Caudatus I notice that they
bear them & have Specimens gathered
a few days ago containing them.— I
presume the wet season has been very
Favorable for the development of that
Rock Isoetes but I did not attend
to it.— Next year I could probably
collect Isoetes Riparia for you if
desired, in exchange for other plants.—
in 1865 I found what now

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appears to be a well marked var
of Cimicifuga Racemosa the
leaves being finely divided I
cultivated one of them & have now
for the first time a few specimens
of the fruit & flowers, - in their
locality some (a dozen) plants grow
but they have not flowered since
I found them, I enclose some for
examination, - I also enclose a Sagina
which I found on a wet rock near Wilington
I cannot make out satisfactorily what
one it is. would you please name
it for me

Very Respectfully
A. Commins

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Acc^d May 18th
A — 22

Centreville Del May 15th 1877

Dr Geo Engelmann
Dear Sir, I thought

you might like to have a new Heteraphylla in flower and therefore send a package containing some 28 specimens which I collected yesterday (May 14th/77) from the same tree we visited last autumn, two miles west of Wilmington Del in E. Woodward woods, which you no doubt remember these are marked No 10 in the Package. Some other specimens are also enclosed, No 9. in q. Primoides a few of which grows here on the serpentine soil, perhaps it may interest to know the height of a few of them which I measured last Autumn

1st one measured 15 feet Hight — 1 3/4 inches in diam at Base
2d " 14+ ft " — 1 3/4 in "
3d " 12 3/4 ft " — 2 in "
4th " 12 ft " — 2 in "

being the largest ~~that~~ I have met with yet,

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buried in the Earth under these I found the excrescences or insect galls, similar to the one on the leaf, all of which are enclosed in the paper marked 9. —

No 8. 9 a tree growing in dry upland woods (Mt Ceba Del) with dark coloured Bark, what Nat of Pennies is this? —

No 7. 9 4 specimens in fl Coll^d May 14th 1877 at Green Bank Mills. (the old leaves were Coll^d Dec/63. tell me what you make of this. —

No 6. 9 Bicolor 7 specimens of the fl Coll^d My 14/77 in the vicinity of Woodworts wood, a small tree with dark Colored bark, also a few acorns & excrescences or insect galls are enclosed which were taken from the tree at the same time, the longer & angular ones were clustered at the end of a Branch but dropped off when Handled, green Bicolor is that Correct. —

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large buds, thus not the true leaf, not

No 5. Q Michauxii? 11, specimens in fl Call May 14-1877 in Q Woodlands woods a large tree with white, scaly or flaky bark, which Wm M Canby and myself have marked No V. the cup and acorns very large, Have I given the proper name to this?

as you see, I wish to get better posted in regard to our oaks ~~some~~, some of them are perplexing.

Yours Truly

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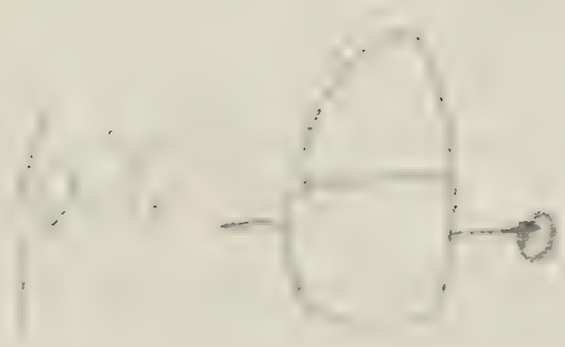

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Rec Aug 10th
An 14

Centreville Ill. Aug 8th 1877.

Dr Geo. Engelmann

Dear Sir – Harvesting over I have now leisure to attend to other matters. I can not distinguish with certainty by the bark alone, but as to Nos 5. 6. 7 & 8 of which you have specimens No 5. has a white, flaky or shelly Bark, on the body of the tree it is in loose thin plates. in No 6. 7 & 8. the color is alike, being darker and of an Ashy Gray, dark ashy gray but the bark not shelly like No 5. — in No. 6. & 7. the curling backwards of the outer bark on the young limbs towards the extremities of the branches gives to the tree a somewhat roughish appearance. No 8. the quercus from Mt Cuba grows on the farm upon which I reside, I made an effort to get specimens but the lower limbs being 50 to 60 feet from

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the ground I was unable to reach them. but I intend to get the specimens, if I have to cut down the tree to do it. Q. Prinus Monticola also grows here this has a whitish close grained bark when young - getting darker and more deeply furrowed with age, with a spreading top shaped cup, like this — in No 8 the cup does not spread or widen at top the Bark is furrowed of a dark: Ashy Gray color - (it would compare in color with the darker forms of Q. Bicolor or Stellata or of Nyssa Multiflora) one other tree also grows here with the same dark colored bark, but the leaves more like Q. Prinus Monticola or intermediate between them. referring to Elliotts sketch P. 610. Vol 2. he remarks under Q. Montana " to the Quercus Michauxii it has much affinity etc ".

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I send you a Package by Express mostly of oak specimens q. Heterophylla. Michauxii & Prinoides look at No 11. it might be the q. Phellonica of Mr Kin. See Elliott remarks under q Michauxii P 609.

No 7. is the oak from Green Bank with sessile fruit & leaves olive green beneath a form of which I had sent you before but these are better specimens.

Next to Bicolor would not q Stellata be more nearly allied to this? in the Package you will find some deviations from the normal forms in Rhus. Desmodium. Rudbeckia which perhaps may interest also a Hybrid Raspberry a single specimen of which I found growing wild in a thicket a few years ago. a specimen of what I had taken for in

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Genera Ambigua is also enclosed
It is nothing more than a form
of Rubra most likely.

Yours very Truly,

A. Commons

I intend sending you more
specimen of genera Heteraphylla,
G. Michauxii, & Primula - if
anything else is desirable from
this vicinity let me know.

In the package are 1, 5, 7, 11, 12 also a little plant
2 ~~[illegible]~~ Michauxii var.
3
4
5 Michauxii vix pubescens
6
7 Circular sessile flow!
8 Primus from Mt Caba
9
10
11 Mitchauxii glabrate
12 " "

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Rec^d Aug 25
Ans 26

Centreville Del Aug 22^d 1877

Dr. Geo. Engelmann

Dear Sir. Quercus Prinus Monticola is common here, but do not mistake my No 5. from Mt Cube for it as it is probably Bicolor or Michauxii with subsessile fruit. another tree standing near the latter, as I mentioned before, appears to be intermediate between it and Q. Prinus Monticola, I will try to get the mature fruit of both for you, although the height the limbs are from the ground it may not be easy to obtain (50 to 60 ft) I send a leaf specimen from each. No 7. has abundance of fruit which I can obtain without difficulty:

Now if No 7. from Fern Bank be Bicolor with subsessile fruit (of the Michauxii type) and No 8 from Mt Cube be

Bicolor or Michauxii with subacute
fruit (of Prim. Monticola type) and the
other three approach still nearer P. Monticola
if these all prove to be intermediate
forms as I suspect, it will accord
with the views of the Elder Michaux
in Reducing them all to modifications
of Q. Prinus. but I presume it
will be found necessary to make
species of some and note the
intermediate, somewhat after the
manner in which Carex Foenea,
Straminea, and their variable forms
are now arranged in the Manual
of Dr Gray.

Quercus Heterophylla is evidently
a good species and perhaps more
common southward, M. A. Curtis in
his Catalogue of N. Carolina plants (1867)
mentions Q. Phellos. var. Heterophylla and
gives the locality — Alamance Creek,
perhaps the same as ours if so indicates

I think a region where it might be found in greater abundance, it might be well to direct the attention of Botanists to these localities, he also mentions q. Imbricaria – for Leana – locality – Pidgeon River.

Very Truly Yours

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Rec Octob 5th
Ans 6

Centreville Del Oct 2d 1877

Dr Geo. Engelmann

Dear Sir — By to days mail I send a gill of the acorns of Quercus Heterophylla which I gathered from the tree in Woodward wood two miles west of Wilmington Del on Sept 28th. this is the tree we visited on Sept 29th of last year. I have also sent a quart of the acorns from this tree to Prof Sargent of Cambridge Mass and a like quantity to Thomas Meehan of Phila During a recent trip to Southern Delaware I found another tree of this species growing at Townsend or rather I ought to say, 4 saplings about 15 feet high growing from an old stump. there was no fruit, so I enclose leaf specimen from it, the leaves appear broadest at summit and often 3-lobed, a few with short petioles

as in the Willow oak. — that tree grows near the locality of another of that species found here some years ago by Thomas Meehan

A single acorn in a paper (1) is from the large shrub (q Prinoides?) my No 2 — which grows here on serpentine soil. — paper No 2 with several acorns is the same (q Prinoides?) my No 1 — a smaller shrub rarely 3 to 6 ft high, these were collected Sept 19th. I regret to find some of these have already sprouted, — Paper No 3 is from the tree at Green Bank — q Bicolor with subacute fruit (my No 7.) upon visiting this tree to get mature acorns to day I could secure only a few which were sent to Prof Sargent another season perhaps they will be in greater abundance. in a short time I will send the specimens I have collected for you.

Yours very truly

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Rec Oct 26th
Ans Nov 25

Centreville Del. Oct 23d 1877.

Dr Geo Engelmann

Dear Sir – I have just sent by Express a Package of plants to you. It contains a few rare Delaware-plants the balance are oak specimens.

Our Q Heterophylla will now be fully represented to you I think, the acorns of this tree this season were better matured and noticably larger in size than usual. Q Prinoides is in fair supply (if it does not prove to be different) but lost of Bicolor from Green Bank Mills with sessile fruit I could not obtain good specimens, the few acorns that remained at maturity, many

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were imperfect, I send them
However dust as obtained.
the labels are numbered
to correspond with those
I made ~~about~~ previously.

Very Truly Yours,
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Rec April 15

Centreville Del,
Ap 11th 1878.

Dr Geo Engelmann

Dear Sir, While Collecting Specimens this Spring for Prof Sargent of Cambridge, and for myself, I thought I would also send a Package to you of some Terminal Buds from our rarer oaks, q. Heterophylla — Michauxii — and that form of Bicolor with sessile or nearly sessile fruit, as well also of Carya Microcarpa which Mr Canby informs me you desired Specimens of, I have sent specimens to Prof Sargent of this, but really I do not feel certain about it, it seems too much like Porcina ~~to~~ may be only a form or var. of it.

On visiting the locality this Spring of quercus Michauxii to get Buds I found that my only tree (No 5). of it had been cut

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down and taken away, leaving only a few branches from which I secured some buds. So I am reminded that it would be prudent to secure specimens of our rarer trees now while they exist and not lose opportunities that might soon pass beyond remedy. The number on the enclosed labels, corresponds with the number on each paper in the Package.

I received the Pamphlets sent accept my thanks for them,

Sincerely Yours

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Rec'd Throughout Sept 9th
ans Aug Sept 27

Centreville Del
July 30th 1878.

Geo. Engelmann M.D.

Dear Sir – I send a small packet containing a Juncus which I found growing on the Bordas of Ditches in the salt marshes, at Ocean City, Md, a place of resort on the Atlantic Coast, about 12. miles south of the Delaware state line, the specimens were all out of season and seeds gone. instead of 5 to 8 flowered heads, I find 8, to 18. not knowing Juncus Acutus, and being in doubt whether it was J. Roemerianus. I send a specimen and would be greatly obliged if you would inform me what it is,

Sincerely Yours,

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Ans Oct 14
Ans Oct 25

Faulkland Del
Oct 12th 1881.

Geo. Engelmann. M.D.

Dear Sir:

I send a small Packet by mail to Day with specimens of Quercus Heterophylla. Mx. & of Q. Phellos. The former from new localities in Southern New Jersey. it seems singular that on each side of the river Delaware, this spec (Q. Heterophylla) can only be found on or near a line Bordering the Tidal Points of the streams which Empty into it, in other words where the Alluvial terminates and the upland commences. it seems to be restricted to this line bordering the alluvial, along this course I am confidant more will be found when sought for. and it should be sought for along the course indicated. Over

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No 10. Quercus. ——— This appears to be a form of Q. Heterophylla with more sharply lobed leaves, Prominently 3 lobed towards the summit and above the middle.

No 11. Quercus Heterophylla, Mx. leaves (from the Base of the) with shorter Petioles ~~than~~ usual

No. 12. Quercus Heterophylla Mx.? a small specimen taken from a stump, leaves with short Petioles like those of Q. Phellos.

No. 13. & 14. Q. Phellos. L. — with leaves which retain their pubescence throughout the season.

No 15. " " (Willow oak). small, narrow leaved form.

Is it reflexa Heterophylla for analogies!

No. 16. & 17. " " (Peach oak). Larger leaved form.

The variant features presented by some of the specimens induces me to send them. I should like to hear from you in reference to two of them. Nos 10. & 11.

Yours Truly.

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Rec Oct 20'
Ans — 21

Faulkland Del
Oct 18th 1882.

Geo Engelmann, M.D.
Dear Sir:

I send a Package to day by Express. you will find in it specimens of the oak I found last July in Salem Co, N. Jersey. with fruit, it bore a few acorns this season which enables me to furnish you with some, the tree is young and thrifty with dark colored bark, at base, lighter in color above, a noticeable and peculiar feature of this oak is the curving or contraction of the nerves and midrib of the leaf, this is carried to such extent that the Boat-shaped leaves might serve for temporary drinking cups, they seem to be affected in this way all over the tree, excepting a few of the shorter leaves from the body of the tree, in the specimens

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I now send, I slit most of the leaves when Pressing them, to get them in a presentable shape, and withal some have a roughish appearance from the contraction, the nature of this I do not yet comprehend, it seems inherent in the tree and not the result of insect agency. — The small oak from the serpentine soil near Centreville was Barren of fruit and I can only send a few leaf specimens, I perceive now this is not q. Prinoides, it may be near q. Bicolor — I've put in the package some specimens of q. Phellos from various sources. and also what seems to be 2 forms of Carya Microcarpa, the one growing here at Fauklland has large leaves, small fruit and scaly or shaggy bark, some of them exfoliating in strips as in C.

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Alba, the Farmers here call it Shellbark Hickory, — the tree at Laurel Del (Sussex Co.) has a smooth close bark narrow small leaves with Petiole, pubescent above and smooth below (9.E Exhibiting I think its affinity with C. Tomentosa, while the first is towards C. Alba. — There are also 3 forms of C. Porcina distinguished on their Labels as A. B. & C. — A is a tree with roughish. Scaly Bark, Husk not opening till by late some of them not until the next spring although Husk & shell are both thin. tree not by common here.

C. a tree with smoothish Bark, leaves beneath Pubescent, this is a tall tree growing in woods of which I have no flowering specimens, the leaves & fruit polgamously fragrant, more so than our other species. Yours very truly.

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Rec Nov 13

Faulkland Del
Nov 8. 1882

Geo Engelmann. M.D.

Dear Sir:

Your Letter came to Hand some time ago but indisposition has prevented me from replying sooner.

The oak (No. 1.) from Serpentine Soil is q. Prinoides. Willd. — the other specimen (No. 2.) from Serpentine soil also, but from another locality 1/8 of a mile distant from the above, differs from it in this, it attains a greater age (20. years) is larger in growth (9–15. feet in height, 1½–3. inches in diameter at base) but may be only a more Arborescent form of it. The oak specimen from Salem Co. N.J. Prof. Watson of Cambridge, refers to q. Imbricaria, and it appears to be what Barton, and Gray both have taken for q. Imbricaria. it is a question for Consideration

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whether this N. Jersey oak be q. Imbricaria. It is very scarce here & seldom found. upon enquiry I could not hear of another tree like the one found, anywhere in that vicinity, Can it Possibly be be a Hybrid? one of the forms, which Sach's (Text Book P. 821.) Terms — Species Hybrids, Variety-Hybrids, Derivative Hybrids, etc the deviations and variable features we see in some of our Hickory's, as well as in the oaks, appear to be the result of Hybridisation and Reversion. we have here what appears to be three forms of Carya Microcarpa (I distinguish this from C. Porcina, by the Globular (edible) fruit usually 3/4 of an inch in diameter with Husk divided to the base, and leaves glandular beneath). the fruit form from Chadds Ford. Pa, a large tree on High ground with habit & aspect of C. Porcina and which I could not distinguish from it by the winter buds alone. The Second form

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ria, from Faulkland Del. with large leaves,
large winter buds, and Bark more or
less shaggy or exfoliating. Aspect of tree
ture like C. atlka, and perhaps a small fruited
x variety of it or should be referd to that
ch species as a variety. — The Third form
is from Laurel Del, tree with a smooth
ete close bark. Small narrow leaves Pubescent
es beneath and on the Petioles, showing I think
le some affinity toward C. Tomentosa.

I distinguish C. Porcina from the
above, a minutes by the fruit, I.E. Husk dividing
partially to near the middle (not to base)
cafe what I have sent you labelled
te C. Porcina. A. appears to be the most
nte distinct of the three forms we have
here, a tree with roughly furrowed bark
inclining to be somewhat flaky or Laminated,
d fruit flattened, with a ~~thinner~~ husk
l and shell than, than of any other species Here
except C. atmara, but the thickness
or thinness of Husk I find to be a

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variable feature in our Hickories, in C. Tomentosa usually very thick and pointed to base, or thinner and pointed nearly to Base. It may be possible that my C. Porcina, Ar is distinct from true C. Porcina but I cannot decide the matter.

Yours Very Truly.

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